

#()



PCT/09

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/913,345

DATE: 04/22/2002

TIME: 15:51:17

Input Set : A:\Sequence Listing 5034.ST25.txt

Output Set: N:\CRF3\04222002\I913345.raw

ENTERED

3 <110> APPLICANT: Garssen, Gerrit J.
 4 Jacobs, Jorg G.
 5 Langeveld, Joannes P.M.
 6 Smits, Marinus A.
 7 van Keulen, Lucien J.M.
 8 Schreuder, Bram E.C.
 9 Bossers, Alexander

11 <120> TITLE OF INVENTION: Prion Test
 13 <130> FILE REFERENCE: 2183-5034US
 15 <140> CURRENT APPLICATION NUMBER: US 09/913,345
 C--> 16 <141> CURRENT FILING DATE: 2002-03-25
 18 <150> PRIOR APPLICATION NUMBER: PCT/NL00/00079
 19 <151> PRIOR FILING DATE: 2000-02-09
 21 <150> PRIOR APPLICATION NUMBER: EP 99200391.3
 22 <151> PRIOR FILING DATE: 1999-02-11
 24 <160> NUMBER OF SEQ ID NOS: 30
 26 <170> SOFTWARE: PatentIn version 3.1
 28 <210> SEQ ID NO: 1
 29 <211> LENGTH: 253
 30 <212> TYPE: PRT
 31 <213> ORGANISM: Homo sapiens
 33 <400> SEQUENCE: 1

35	Met	Ala	Asn	Leu	Gly	Cys	Trp	Met	Leu	Val	Leu	Phe	Val	Ala	Thr	Trp
36	1				5					10						15
39	Ser	Asp	Leu	Gly	Leu	Cys	Lys	Lys	Arg	Pro	Lys	Pro	Gly	Gly	Trp	Asn
40			20						25					30		
43	Thr	Gly	Gly	Ser	Arg	Tyr	Pro	Gly	Gln	Gly	Ser	Pro	Gly	Gly	Asn	Arg
44			35					40					45			
47	Tyr	Pro	Pro	Gln	Gly	Gly	Gly	Gly	Trp	Gly	Gln	Pro	His	Gly	Gly	Gly
48		50				55					60					
51	Trp	Gly	Gln	Pro	His	Gly	Gly	Gly	Trp	Gly	Gln	Pro	His	Gly	Gly	Gly
52	65				70				75					80		
55	Trp	Gly	Gln	Pro	His	Gly	Gly	Gly	Trp	Gly	Gln	Gly	Gly	Gly	Thr	His
56				85					90					95		
59	Ser	Gln	Trp	Asn	Lys	Pro	Ser	Lys	Pro	Lys	Thr	Asn	Met	Lys	His	Met
60			100						105					110		
63	Ala	Gly	Ala	Ala	Ala	Ala	Gly	Ala	Val	Val	Gly	Gly	Leu	Gly	Gly	Tyr
64			115					120					125			
67	Met	Leu	Gly	Ser	Ala	Met	Ser	Arg	Pro	Ile	Ile	His	Phe	Gly	Ser	Asp
68		130					135					140				
71	Tyr	Glu	Asp	Arg	Tyr	Tyr	Arg	Glu	Asn	Met	His	Arg	Tyr	Pro	Asn	Gln
72	145				150				155					160		
75	Val	Tyr	Tyr	Arg	Pro	Met	Asp	Glu	Tyr	Ser	Asn	Gln	Asn	Asn	Phe	Val

RAW SEQUENCE LISTING

DATE: 04/22/2002

PATENT APPLICATION: US/09/913,345

TIME: 15:51:17

Input Set : A:\Sequence Listing 5034.ST25.txt

Output Set: N:\CRF3\04222002\I913345.raw

```

76          165          170          175
79 His Asp Cys Val Asn Ile Thr Ile Lys Gln His Thr Val Thr Thr Thr
80          180          185          190
83 Thr Lys Gly Glu Asn Phe Thr Glu Thr Asp Val Lys Met Met Glu Arg
84          195          200          205
87 Val Val Glu Gln Met Cys Ile Thr Gln Tyr Glu Arg Glu Ser Gln Ala
88          210          215          220
91 Tyr Tyr Gln Arg Gly Ser Ser Met Val Leu Phe Ser Ser Pro Pro Val
92 225          230          235          240
95 Ile Leu Leu Ile Ser Phe Leu Ile Phe Leu Ile Val Gly
96          245          250
99 <210> SEQ ID NO: 2
100 <211> LENGTH: 252
101 <212> TYPE: PRT
102 <213> ORGANISM: Oryctolagus cuniculus
104 <400> SEQUENCE: 2
106 Met Ala His Leu Gly Tyr Trp Met Leu Leu Leu Phe Val Ala Thr Trp
107 1          5          10          15
110 Ser Asp Val Gly Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly Gly Trp
111          20          25          30
114 Asn Thr Gly Gly Ser Arg Tyr Pro Gly Gln Ser Ser Pro Gly Gly Asn
115          35          40          45
118 Arg Tyr Pro Pro Gln Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly
119          50          55          60
122 Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly
123 65          70          75          80
126 Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Gly Gly Thr His Asn
127          85          90          95
130 Gln Trp Gly Lys Pro Ser Lys Pro Lys Thr Ser Met Lys His Val Ala
131          100          105          110
134 Gly Ala Ala Ala Ala Gly Ala Val Val Gly Gly Leu Gly Gly Tyr Met
135          115          120          125
138 Leu Gly Ser Ala Met Ser Arg Pro Leu Ile His Phe Gly Asn Asp Tyr
139          130          135          140
142 Glu Asp Arg Tyr Tyr Arg Glu Asn Met Tyr Arg Tyr Pro Asn Gln Val
143 145          150          155          160
146 Tyr Tyr Arg Pro Val Asp Gln Tyr Ser Asn Gln Asn Ser Phe Val His
147          165          170          175
150 Asp Cys Val Asn Ile Thr Val Lys Gln His Thr Val Thr Thr Thr Thr
151          180          185          190
154 Lys Gly Glu Asn Phe Thr Glu Thr Asp Ile Lys Ile Met Glu Arg Val
155          195          200          205
158 Val Glu Gln Met Cys Ile Thr Gln Tyr Gln Gln Glu Ser Gln Ala Ala
159          210          215          220
162 Tyr Gln Arg Ala Ala Gly Val Leu Leu Phe Ser Ser Pro Pro Val Ile
163 225          230          235          240
166 Leu Leu Ile Ser Phe Leu Ile Phe Leu Ile Val Gly
167          245          250
170 <210> SEQ ID NO: 3

```

RAW SEQUENCE LISTING

DATE: 04/22/2002

PATENT APPLICATION: US/09/913,345

TIME: 15:51:17

Input Set : A:\Sequence Listing 5034.ST25.txt

Output Set: N:\CRF3\04222002\I913345.raw

```

171 <211> LENGTH: 254
172 <212> TYPE: PRT
173 <213> ORGANISM: Syrian golden hamster
175 <400> SEQUENCE: 3
177 Met Ala Asn Leu Ser Tyr Trp Leu Leu Ala Leu Phe Val Ala Met Trp
178 1 5 10 15
181 Thr Asp Val Gly Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly Trp Asn
182 20 25 30
185 Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly Gly Asn Arg
186 35 40 45
189 Tyr Pro Pro Gln Gly Gly Gly Thr Trp Gly Gln Pro His Gly Gly Gly
190 50 55 60
193 Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly
194 65 70 75 80
197 Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Gly Gly Gly Thr His
198 85 90 95
201 Asn Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Met Lys His Met
202 100 105 110
205 Ala Gly Ala Ala Ala Gly Ala Val Val Gly Gly Leu Gly Gly Tyr
206 115 120 125
209 Met Leu Gly Ser Ala Met Ser Arg Pro Met Met His Phe Gly Asn Asp
210 130 135 140
213 Trp Glu Asp Arg Tyr Tyr Arg Glu Asn Met Asn Arg Tyr Pro Asn Gln
214 145 150 155 160
217 Val Tyr Tyr Arg Pro Val Asp Gln Tyr Asn Asn Gln Asn Asn Phe Val
218 165 170 175
221 His Asp Cys Val Asn Ile Thr Ile Lys Gln His Thr Val Thr Thr Thr
222 180 185 190
225 Thr Lys Gly Glu Asn Phe Thr Glu Thr Asp Ile Lys Ile Met Glu Arg
226 195 200 205
229 Val Val Glu Gln Met Cys Thr Thr Gln Tyr Gln Lys Glu Ser Gln Ala
230 210 215 220
233 Tyr Tyr Asp Gly Arg Arg Ser Ser Ala Val Leu Phe Ser Ser Pro Pro
234 225 230 235 240
237 Val Ile Leu Leu Ile Ser Phe Leu Ile Phe Leu Met Val Gly
238 245 250
241 <210> SEQ ID NO: 4
242 <211> LENGTH: 254
243 <212> TYPE: PRT
244 <213> ORGANISM: Murinae gen. sp.
246 <400> SEQUENCE: 4
248 Met Ala Asn Leu Gly Tyr Trp Leu Leu Ala Leu Phe Val Thr Met Trp
249 1 5 10 15
252 Thr Asp Val Gly Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly Trp Asn
253 20 25 30
256 Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly Gly Asn Arg
257 35 40 45
260 Tyr Pro Pro Gln Gly Gly Thr Trp Gly Gln Pro His Gly Gly Gly Trp
261 50 55 60

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/913,345

DATE: 04/22/2002

TIME: 15:51:17

Input Set : A:\Sequence Listing 5034.ST25.txt

Output Set: N:\CRF3\04222002\I913345.raw

```

264 Gly Gln Pro His Gly Gly Ser Trp Gly Gln Pro His Gly Gly Ser Trp
265 65 70 75 80
268 Gly Gln Pro His Gly Gly Gly Trp Gly Gln Gly Gly Gly Thr His Asn
269 85 90 95
272 Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Leu Lys His Val Ala
273 100 105 110
276 Gly Ala Ala Ala Ala Gly Ala Val Val Gly Gly Leu Gly Gly Tyr Met
277 115 120 125
280 Leu Gly Ser Ala Met Ser Arg Pro Met Ile His Phe Gly Asn Asp Trp
281 130 135 140
284 Glu Asp Arg Tyr Tyr Arg Glu Asn Met Tyr Arg Tyr Pro Asn Gln Val
285 145 150 155 160
288 Tyr Tyr Arg Pro Val Asp Gln Tyr Ser Asn Gln Asn Asn Phe Val His
289 165 170 175
292 Asp Cys Val Asn Ile Thr Ile Lys Gln His Thr Val Thr Thr Thr Thr
293 180 185 190
296 Lys Gly Glu Asn Phe Thr Glu Thr Asp Val Lys Met Met Glu Arg Val
297 195 200 205
300 Val Glu Gln Met Cys Val Thr Gln Tyr Gln Lys Glu Ser Gln Ala Tyr
301 210 215 220
304 Tyr Asp Gly Arg Arg Ser Ser Ser Thr Val Leu Phe Ser Ser Pro Pro
305 225 230 235 240
308 Val Ile Leu Leu Ile Ser Phe Leu Ile Phe Leu Ile Val Gly
309 245 250
312 <210> SEQ ID NO: 5
313 <211> LENGTH: 256
314 <212> TYPE: PRT
315 <213> ORGANISM: Bos taurus
317 <400> SEQUENCE: 5
319 Met Val Lys Ser His Ile Gly Ser Trp Ile Leu Val Leu Phe Val Ala
320 1 5 10 15
323 Met Trp Ser Asp Val Gly Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly
324 20 25 30
327 Gly Trp Asn Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly
328 35 40 45
331 Gly Asn Arg Tyr Pro Pro Gln Gly Gly Gly Gly Trp Gly Gln Pro His
332 50 55 60
335 Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His
336 65 70 75 80
339 Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Gly Trp Gly Gln Gly
340 85 90 95
343 Gly Thr His Gly Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Met
344 100 105 110
347 Lys His Val Ala Gly Ala Ala Ala Ala Gly Ala Val Val Gly Gly Leu
348 115 120 125
351 Gly Gly Tyr Met Leu Gly Ser Ala Met Ser Arg Pro Leu Ile His Phe
352 130 135 140
355 Gly Ser Asp Tyr Glu Asp Arg Tyr Tyr Arg Glu Asn Met His Arg Tyr
356 145 150 155 160

```

RAW SEQUENCE LISTING

DATE: 04/22/2002

PATENT APPLICATION: US/09/913,345

TIME: 15:51:17

Input Set : A:\Sequence Listing 5034.ST25.txt

Output Set : N:\CRF3\04222002\I913345.raw

```

359 Pro Asn Gln Val Tyr Tyr Arg Pro Val Asp Gln Tyr Ser Asn Gln Asn
360      165      170      175
363 Asn Phe Val His Asp Cys Val Asn Ile Thr Val Lys Glu His Thr Val
364      180      185      190
367 Thr Thr Thr Thr Lys Gly Glu Asn Phe Thr Glu Thr Asp Ile Lys Met
368      195      200      205
371 Met Glu Arg Val Val Glu Gln Met Cys Ile Thr Gln Tyr Gln Arg Glu
372      210      215      220
375 Ser Gln Ala Tyr Tyr Gln Arg Gly Ala Ser Val Ile Leu Phe Ser Ser
376 225      230      235      240
379 Pro Pro Val Ile Leu Leu Ile Ser Phe Leu Ile Phe Leu Ile Val Gly
380      245      250      255
383 <210> SEQ ID NO: 6
384 <211> LENGTH: 256
385 <212> TYPE: PRT
386 <213> ORGANISM: Ovis aries
388 <400> SEQUENCE: 6
390 Met Val Lys Ser His Ile Gly Ser Trp Ile Leu Val Leu Phe Val Ala
391 1      5      10      15
394 Met Trp Ser Asp Val Gly Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly
395      20      25      30
398 Gly Trp Asn Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly
399      35      40      45
402 Gly Asn Arg Tyr Pro Pro Gln Gly Gly Gly Gly Trp Gly Gln Pro His
403      50      55      60
406 Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His
407 65      70      75      80
410 Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Gly Trp Gly Gln Gly
411      85      90      95
414 Gly Ser His Ser Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Met
415      100     105     110
418 Lys His Val Ala Gly Ala Ala Ala Ala Gly Ala Val Val Gly Gly Leu
419      115     120     125
422 Gly Gly Tyr Met Leu Gly Ser Ala Met Ser Arg Pro Leu Ile His Phe
423      130     135     140
426 Gly Asn Asp Tyr Glu Asp Arg Tyr Tyr Arg Glu Asn Met Tyr Arg Tyr
427 145     150     155     160
430 Pro Asn Gln Val Tyr Tyr Arg Pro Val Asp Arg Tyr Ser Asn Gln Asn
431      165     170     175
434 Asn Phe Val His Asp Cys Val Asn Ile Thr Val Lys Gln His Thr Val
435      180     185     190
438 Thr Thr Thr Thr Lys Gly Glu Asn Phe Thr Glu Thr Asp Ile Lys Ile
439      195     200     205
442 Met Glu Arg Val Val Glu Gln Met Cys Ile Thr Gln Tyr Gln Arg Glu
443      210     215     220
446 Ser Gln Ala Tyr Tyr Gln Arg Gly Ala Ser Val Ile Leu Phe Ser Ser
447 225     230     235     240
450 Pro Pro Val Ile Leu Leu Ile Ser Phe Leu Ile Phe Leu Ile Val Gly
451      245     250     255

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/913,345

DATE: 04/22/2002

TIME: 15:51:18

Input Set : A:\Sequence Listing 5034.ST25.txt

Output Set: N:\CRF3\04222002\I913345.raw

L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date